

PFP Recovery Update – January 29, 2018

Updated 2:20 p.m. PST

Updates since January 26, 2018 highlighted

CHPRC is not authorized to conduct PFP demolition work until DOE has been briefed and concurs with the path forward. The focus at PFP is on the health and safety of the workforce, addressing worker concerns, ensuring PFP remaining facility debris and rubble piles are stable, and mitigating the potential for any additional spread of contamination

Plant Status

System/Area	Status
PFP Workforce	<ul style="list-style-type: none">• On Jan. 26, while applying fixative to trailers at PFP, fixative was seen inside an employee's powered air purifying respirator hood and on their protective clothing. The employee was surveyed for contamination; none was found. The employee was taken to the on-site occupational medical provider and was returned to work with no restriction.• On Jan. 29 at 1:30 p.m., the PFP team began conducting precautionary radiological surveys after an employee entering the radiological buffer area (RBA) at 19th and Camden was discovered to have 4,000 dpm/100 cm² total contamination on their boot at the RBA boundary. Radiological control technicians investigated potential sources of that contamination. Conservative survey efforts were completed along travel path, including MO-287, with no contamination found. Employees in MO-287 were asked to remain in place until surveys were completed. The boot was collected for verification counting. Surveys were ongoing as of 2:25 p.m. PST.
PRF Area	<ul style="list-style-type: none">• Due to predicted high winds on Jan. 27, the work control zone was secured and surveys were conducted, per procedure implemented following the December 2017 events. No contamination was detected.
PFP Property Area	<ul style="list-style-type: none">• Fixative application and retrieval of government property from office trailers inside contamination areas is ongoing.

Radiological Surveys, Sampling and Analysis

On-Site and Environmental:

- **Cookie Sheets (64 total):** No contamination found during Jan. 26 swing shift surveys of 64 cookie sheets.
- **Continuous Air Monitor Readings (15 total):** All CAMs reading <1 DAC-hr as of 12:00 p.m. PST Jan. 29.
- **Samplers (22 total):** Air samples exchanged with no indication of activity, other than radon, as of 11:00 p.m. PST Jan. 26.

Bioassays: The table below provides an initial summary of bioassay results following the spread of contamination in December. The date is current as of Jan. 27 at 3:20 p.m. This information will be

updated as more results are received. Individual employees are briefed on their bioassay results as soon as the results are available.

Requested	271
Negative	102
Initial Positive	1
Less than 1 mrem: 0	
1-10 mrem: 0	
10-20 mrem: 1	
Positive with Verified Dose	1
Less than 1 mrem: 1	
1-10 mrem: 0	
10-20 mrem: 0	

- Doses are the expected dose over 50 years.
- DOE dose limits are 100 mrem/year for non-rad workers and the public onsite (DOE O 458.1) and the Hanford the Hanford Administrative Control Limit for Rad Workers is 500 mrem/year.

External: More information about Washington State Department of health environmental sampling results are available at hanford.gov, including a map and survey data.

- **Government Vehicle Radiological Surveys:**

- Surveys to PFP-controlled government vehicles were completed Jan. 23. Decontamination and dispositioning of 27 contaminated vehicles is ongoing. Those vehicles remain in a posted contamination area.

	Total
PFP-Controlled government vehicles surveyed	97
Decontaminated and returned to service	2
Contaminated and awaiting disposition (held as radiologically-controlled vehicles or decontaminated)	27
No contamination found and returned to service	68

- **Personal Vehicle Radiological Surveys:**

- Seven personal vehicles identified with contamination at COB Dec. 19 and all seven personal vehicles were decontaminated and returned to owners as of 3:30 p.m. PST on Tuesday, Dec. 26.
- In a follow-up survey Jan. 26, on a vehicle that had remained on the Site since Dec. 18, contamination was discovered (48 disintegrations per minute[DPM]/100 cm²). Additional contamination was discovered on Jan. 28, and the vehicle remains controlled. After the discovery on Jan. 26, CHPRC contacted the owners of the other six personal vehicles. Two were resurveyed with DOE oversight, and no contamination was found. Three of the other four owners declined to have their cars resurveyed. The fourth personal vehicle is a rental car, and arrangements are being made for a resurvey with DOE oversight. DOE-RL distributed an Hanford Site all-employee message (*Attachment 1*) regarding this.
- **Home Surveys:** There have been no new requests for home surveys. All requested (seven total) home surveys completed (Dec. 20) with no contamination found.

Future Actions

- Daily contamination surveys will be conducted.
- Continue to monitor air samplers.
- Application of fixative and soil will occur as weather allows

Expert Panel

- Members of the PFP Expert Panel met for the first time on Jan. 25 via video/phone conference. The panel consists of federal, industry, and academic senior leaders with expertise in several scientific and technical disciplines. The panel members are experts in evaluating operational and radiological controls, environmental remediation, and environmental management. The panel will evaluate CHPRC's recovery from the recent contamination spreads and technical approach for safely completing demolition of PFP. The panel will provide observations and recommendations to CHPRC. The Expert Panel's charter and biographies of its members are available at hanford.gov.

Workforce Management

- The workforce remains committed to the current mission of hazard recognition and control, despite the challenging situation.

Communications

- On Jan. 29, PFP leadership discussed recent PFP events and recovery actions with Mission Support Alliance Electrical Utilities workers who help support the PFP; briefings to other Hanford Site employees are scheduled.